

SINTEF confirms that

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit

has been found to be fit for use in Norway and to meet the provisions regarding product documentation given in the regulation relating to the marketing of products for construction works (DOK) and regulations on technical requirements for building works (TEK), with the properties, fields of application and conditions for use as stated in this document



1. Holder of the approval

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2. Product description

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit are medium density fibreboards for internal wall lining and ceilings. The boards are manufactured by the wet process method.

Dimensions, density, squareness and edge straightness are given in Table 1 and 2. Moisture content when delivered from the factory is 4 – 9 percent by weight.

Huntonit Proff Vegg has click-locks at the edges, while Huntonit Bygningsplater and Huntonit Brannit have tongue and groove edges with visible V-joint, or shiplap joints with tapered edges for jointing compound, see Fig. 1.

Huntonit Proff Vegg is a fibre board for internal walls. The board is delivered primed with water-based paint ready for wallpaper/pant.

Table 1 Huntonit Proff Vegg, measures and tolerances

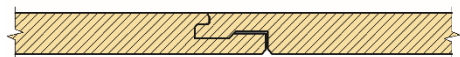
Property	Values	Tolerances
Thickness (nominal)	10.2 mm	-0.2 mm
Width	620 mm	± 0.5 mm
Length	2420 mm	± 0.5 mm
	2800 mm	± 0.5 mm

Table 2 Huntonit Bygningsplater and Huntonit Brannit, measures, tolerances and density

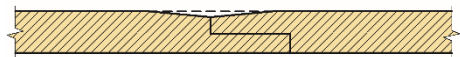
Property	Values	Tolerances
Thickness (nominal)	11 mm	+0.4/-0.7 mm
	9 mm	± 0.3 mm
Width	11 mm	± 0.5 mm
	9 mm	± 1.0 mm
Length	11 mm	± 1.0 mm/m
	9 mm	



T & g with V-joint and hidden nailing



Click joint on Proff Vegg



Shiplap joint with tapered edge for gluing and nailing

Fig. 1

Standard edge profiles of Huntonit Proff Vegg, and Huntonit Bygningsplater og Huntonit Brannit

Huntonit Bygningsplater are untreated, with a plain surface. Boards may also be delivered with a textured surface and painted in the factory with water-based paint and acrylic varnish in hazard class YL group 00. Boards are delivered in several standard colours, and with colour delivered on request according to the NCS colour register.

Huntonit Brannit is painted with a fire-retardant paint and is available as wall and ceiling panels with a smooth or textured surface.

3. Fields of application

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit are intended to be used for internal wall lining and for ceilings, installed directly on timber framework. The boards can be applied in dry rooms, and in dry zones of bathrooms and other wet rooms according to Building Research Design Guide No. 527.204 *Bad og andre våtrom*.

The boards may be used as specified in guidance to regulations on technical requirements for building works TEK17 § 11-9 (2) Table 1A and B1. Huntonit Brannit may be used in structures with strict fire safety regulations such as hotels, hospitals and nursing homes.

The boards shall not be used as underlay for ceramic tiles, vinyl covering reinforced with glass-fibre, or other surface materials which require very small movements in the underlay caused by moisture variations.

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Table 3
Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit, product properties

Property	Test method	Declaration of performance ¹⁾		Control limit ²⁾		Unit
		Huntonit Proff Vegg	Huntonit Bygningsplater Huntonit Brannit	Huntonit Proff Vegg	Huntonit Bygningsplater Huntonit Brannit	
Bending strength - Thickness 11 mm - Thickness 9 mm	EN 310	15 -	15 15	≥ 15 ≥ 15	≥ 15 ≥ 15	N/mm ² N/mm ²
Modulus of elasticity Thickness 11 mm L: T:	EN 310	- -	- -	2521 ³⁾ 3175 ³⁾	2443 ³⁾ 2879 ³⁾	N/mm ² N/mm ²
Thickness swelling. 24 hours Thickness 11 mm	EN 317	15	15	≤ 15	≤ 15	%
Density	EN 323	≤ 840	≤ 840	≤ 840	≤ 840	kg/m ³
Moisture movement in the plane of the board. 30-90 % RH Thickness 11 mm	EN 318	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3 ³⁾	%
Tensile strength perpendicular to the plane of the board Thickness 11 mm	EN 319	0.10	0.10	≥ 0.10	≥ 0.10	N/mm ²
Axial withdrawal of screws - Thickness 11 mm - Thickness 9 mm	EN 320	0.92 -	1.45 -	0.92 ³⁾ -	1.45 ³⁾ 1.35 ³⁾	kN kN
Squareness Thickness 11 mm	EN 324-2	-	-	± 1.0 mm/m	± 1.0 mm/m	mm/m
Edge straightness Thickness 11 mm	EN 324-2	-	-	± 0.5 mm/m	± 0.5 mm/m	mm/m
Water vapour resistance (painted/primed board) Thickness 11 mm s _d -value	EN 12572	≤ 1	≤ 1	0.57 ³⁾	0.97 ³⁾	m
Hard body impact resistance. max falling height steel ball Thickness 11 mm	NT Build 066	-	-	3.5 ³⁾	3.5 ³⁾	m
Surface hardness. steel ball indentation - At load 250 N - Permanent indentation Thickness 11 mm	NT Build 059	0.4 -	- -	0.35 ³⁾ 0.04 ³⁾	0.4 ³⁾ 0.1 ³⁾	mm mm

¹⁾ Manufacturers Declaration of Performance, DoP

²⁾ Control limit shows values that the product has to satisfy during internal factory production control and audit testing

³⁾ Results from type testing

L=Longitudinal T=Transversal

4. Properties

Material properties

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit conform to the requirements for boards type MBH in EN 622-3. Material properties are shown in Table 3.

Reaction to fire

Classification is in accordance with EN 13501-1 and applies to mechanically fastened boards with tongue and groove joints.

Unpainted Huntonit Bygningsplater with a minimum thickness of 9 mm have fire protection class D-s2, d0 for installation without underlying cavities. Unpainted Huntonit interior panels have fire protection class D-s2, d2 when installed with a closed or open cavity not larger than 22 mm behind the board.

Huntonit Bygningsplater, pre-painted from the factory and with a thickness of 11 mm, satisfy fire protection class D-s1, d0. The classification applies when mounting on substrates with fire

protection class A1 or A2-s1, d0 with a density of at least 38 kg / m³ and applies both with and without cavities behind the plate. The building boards must be mechanically fastened to the substrate and the classification applies to both horizontal and vertical joints.

Fire technical properties for Huntonit Proff Vegg, finished primed with water-based acrylic paint from the factory, has not been determined.

Huntonite Brannit with a thickness of 11 mm satisfies fire protection class B-s1, d0. The classification applies to mounting on substrates with fire protection class A1 and A2-s1, d0, with a thickness of at least 11 mm and a minimum density of 510 kg / m³, for example gypsum boards with class minimum A2-s1, d0. Huntonit Brannit must be mechanically fastened to the substrate. The classification applies to horizontal and vertical joints, and with and without cavities behind the plate. The cavity can be filled with mineral wool with fire protection class A1 and a minimum density of 37.5 kg / m³.

Resistance to fire

Huntonit Brannit with thickness of 11 mm satisfy fire resistance class K₂10 according to EN 13501-2 for all types of underlay, with or without cavity. Panels are fastened by screws minimum dimension 4.2 x 25/35 mm and with a maximum distance of 150 mm.

5. Environmental aspects

Substances hazardous to health and environment

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit contains no hazardous substances with priority in quantities that pose any increased risk for human health and environment. Chemicals with priority include CMR, PBT or vPvB substances.

Effect on indoor environment

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit is not regarded as emitting any particles, gases or radiation that have a perceptible impact on the indoor climate, or to have any significant impact on health.

Waste treatment/recycling

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit shall be sorted as wood. The boards shall be delivered to an authorized waste treatment plant for energy recycling.

Environmental declaration

An environmental declaration (EPD) has been worked out according to EN 15804 for *Huntonit bygningsplater*. For complete documentation see EPD no. NEPD-2585-1312-NO, www.epd-norge.no.

Table 3

Environmental product declaration according to EN 15804 for Huntonit painted interior panels. Cradle to gate and end phase (Norway). Functional unit 1 m² (11 mm thick) product life 60 years.

Indicator	Verdi
Global warming potential	7,7 kg CO ₂ equivalent.
Total energy consumption	343 MJ

6. Special conditions for use and installation

Huntonit Bygningsplater and Huntonit Brannit

Huntonit Bygningsplater and Huntonit Brannit shall be installed so late in the building construction period that swelling or bowing due to high moisture levels are avoided.

Huntonit Proff Vegg

Huntonit Proff Vegg is a climate class 2 board which withstands changes in temperature and humidity well. The board is primed and suitable for both wallpapering and painting.

Installation

The boards shall be installed according to the recommended principles in Building Research Design Guide No. 543.204 *Montering av gips-, spon- og trefiberplater på vegger og i himlinger* and the manufacturer's installation guide.

The boards can be installed on timber studs or beams spaced max. c/c 600 mm, with the longest side parallel or perpendicular to the stud/beam direction.

Joints perpendicular to the supports do not require separate support, but otherwise all edges must be supported by studs, beams or nogging. Boards with 280 mm width may also be installed at an angle to the underlay.

Celling panels with 600 mm width should be installed parallel to supports spaced max. c/c 600 mm in ceilings to obtain adequate fastening strength. Alternatively, the boards may be installed perpendicular to supports spaced c/c 300 mm. In ceilings boards with 280 mm width may be installed parallel to battens spaced c/c 280 mm, or perpendicular to supports spaced c/c 300 mm. All underlays must be dry and adjusted into plane.

Fastening the boards must be carried out in accordance with the manufacturer's installation guide for the individual product types.

When the boards are applied in wet rooms (dry zones) the surface must be treated with a water repellent paint or covering.

Penetrations in walls with fire rating must be filled with documented products that maintain the fire rating of the wall.

Transport and storage

The products are to be stored dry, covered and on a flat surface until installation is started.

7. Factory production control

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit are produced by Huntonit AS, Vennesla, Norge.

The holder of the approval is responsible for the factory production control in order to ensure that the product is produced in accordance with the preconditions applying to this approval.

The manufacturing of the product is subject to continuous surveillance of the factory production control in accordance with the contract regarding SINTEF Technical Approval.

Production control of Huntonit Brannit is certified by SINTEF according to EN 13986, certificate No. 1071-CPR-3071.

Production control of Huntonit Proff Vegg and Huntonit Bygningsplater is certified by SINTEF according to EN 13986, certificate No. 1071-CPR-1048.

Huntonit AS has a quality management system certified according to EN ISO 9001 and an environmental management system certified according to EN ISO 14001.

8. Basis for the approval

The evaluation of Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit is based on reports owned by the holder of the approval.

The evaluation of design and technical solutions are based on recommendations given in SINTEF Building Research Design Guides.

9. Marking

Pallets and stacks are marked with a label showing the name of the manufacturer and a product identification according to the requirements in EN 622-3 and EN 13986.

The approval mark for Technical Approval No. 2038 may also be used.

Huntonit Proff Vegg, Huntonit Bygningsplater and Huntonit Brannit are CE marked in accordance with EN 13986.

10. Liability

The holder/manufacturer has sole product responsibility according to existing law. Claims resulting from the use of the product cannot be brought against SINTEF beyond the provisions of Norwegian Standard NS 8402

for SINTEF



Hans Boye Skogstad
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